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Soil Stabilization and Shoring Services | Non - Destructive Testing

NABL ACCREDITED AS PER ISO/IEC 17025:2017

Job No.: CECTC/KRIDL/Ward No.5/ 2019-20 Date: 25.09.2019

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Byatarayana Pura Sub Division, BBMP, Bangalore.
AGENCY	:	**Executive Engineer,** KRIDL, Rajajinagara, Bangalore-10
NAME OF THE WORK	:	Construction of Hospital Building at Govt. School Road Jakkur in Ward No.5, Jakkur
REFRENCE	:	BBMP/EE/BTP/WO/132/2017-18 Date: 24.03.2018
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00%	-

Information is furnished by the Agency

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⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CECTC/KRIDL/Ward No.5/ 2019-20 Date : 25.09.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayana Pura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Rajajinagara, Bangalore-10
Name of Work : Construction of Hospital Building at Govt. School Road Jakkur in Ward No.5, Jakkur
Refrence : BBMP/EE/BTP/WO/132/2017-18 Date: 24.03.2018
Date of Testing : 25.09.2019
Material : Sand Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	5.67	5.67	94.3	90-100
2.36	141	9.40	15.07	84.9	75-100
1.18	278	18.53	33.60	66.4	55-90
600 Micron	256	17.07	50.67	49.3	35-59
300 Micron	366	24.40	75.07	24.9	8-30
150 Micron	332	22.13	97.20	2.8	0-10

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Job No.: CECTC/KRIDL/Ward No.5/ 2019-20 Date : 25.09.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayana Pura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Rajajinagara, Bangalore-10
Name of Work : Construction of Hospital Building at Govt. School Road Jakkur in Ward No.5, Jakkur
Refrence : BBMP/EE/BTP/WO/132/2017-18 Date: 24.03.2018
Date of Testing : 25.09.2019
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	468	3.12	3.12	96.88	95-100
20	8546	56.97	60.09	39.91	30-70
10	3330	22.20	82.29	17.71	10-35
4.75	2296	15.31	97.60	2.40	0-5

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Date : 25.09.2019

Job No.: CECTC/KRIDL/Ward No.5/ 2019-20

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayana Pura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Rajajinagara, Bangalore-10
Name of Work : Construction of Hospital Building at Govt. School Road Jakkur in Ward No.5, Jakkur
Refrence : BBMP/EE/BTP/WO/132/2017-18 Date: 24.03.2018
Date of Testing : 25.09.2019
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	178	3.6	3.6	96.4	95-100
10	2745	54.9	58.5	41.5	25-55
4.75	1756	35.1	93.6	6.4	0-10

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Job No.: CECTC/KRIDL/Ward No.5/ 2019-20 Date: 15.10.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Byatarayana Pura Sub Division, BBMP, Bangalore.

Agency : **Executive Engineer,** KRIDL, Rajajinagara, Bangalore-10

Name of Work : Construction of Hospital Building at Govt. School Road Jakkur in Ward No.5, Jakkur

Reference : BBMP/EE/BTP/WO/132/2017-18 Date: 24.03.2018

Sample Identification : 8mm, 10mm, 12mm, 16mm. Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test: : 15.10.2019

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.397	523	520	16
2	10	0.618	539	536	17
3	12	0.888	548	601	18
4	16	1.580	556	615	19

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Job No.: CECTC/KRIDL/Ward No.5/ 2019-20 Date: 20.01.2020

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayana Pura Sub Division, BBMP, Bangalore.
Agency	: **Executive Engineer,** KRIDL, Rajajinagara, Bangalore-10
Name of the work	: Construction of Hospital Building at Govt. School Road Jakkur in Ward No.5, Jakkur
Refrence	: BBMP/EE/BTP/WO/132/2017-18 Date: 24.03.2018
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2019	20.01.2020	8.215	456.0	20.27
2	23.12.2019	20.01.2020	8.268	489.0	21.73
3	23.12.2019	20.01.2020	8.289	516.0	22.93

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Job No.: CECTC/KRIDL/Ward No.5/ 2019-20 Date: 20.01.2020

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayana Pura Sub Division, BBMP, Bangalore.
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Refrence	: BBMP/EE/BTP/WO/132/2017-18 Date: 24.03.2018
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2019	20.01.2020	8.186	496.0	22.04
2	23.12.2019	20.01.2020	8.145	523.1	23.25
3	23.12.2019	20.01.2020	8.187	511.2	22.72

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Sample ID	: Cement Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2019	20.01.2020	8.256	489.6	21.76
2	23.12.2019	20.01.2020	8.199	501.2	22.28
3	23.12.2019	20.01.2020	8.176	536.2	23.83

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Client : **Assistant Executive Engineer,** Byatarayana Pura Sub Division, BBMP, Bangalore.

Agency : **Executive Engineer,** KRIDL, Rajajinagara, Bangalore-10

Name of the work : Construction of Hospital Building at Govt. School Road Jakkur in Ward No.5, Jakkur

Refrence : BBMP/EE/BTP/WO/132/2017-18 Date: 24.03.2018

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2019	20.01.2020	8.298	521.0	23.16
2	23.12.2019	20.01.2020	8.286	475.2	21.12
3	23.12.2019	20.01.2020	8.371	501.2	22.28

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